CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. R9-2004-0015
FOR THE
LAKE CUYAMACA RECREATION AND PARK DISTRICT
LAKE CUYAMACA PUBLIC RECREATION AREA
SOUTHEAST OF JULIAN
SAN DIEGO COUNTY

A. MONITORING PROVISIONS

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this Monitoring and Reporting Program (M&RP) and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water or substance. Monitoring points shall not be changed without notification to and the approval of the Executive Officer.

2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than +10 percent from true discharge rates throughout the range of expected discharge volumes.

3. Monitoring must be conducted according to United States Environmental Protection Agency (USEPA) test procedures approved under Title 40, Code of Federal Regulations (CFR), Part 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this M&RP.

4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer.

5. Monitoring results must be reported on discharge monitoring report forms approved by the Executive Officer.

6. If the Lake Cuyamaca Recreation and Park District (discharger) monitors any pollutants more frequently than required by this M&RP, using test procedures approved under 40 CFR, Part 136, or as specified in this M&RP, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.

7. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and copies of all reports required by this M&RP, and records of all data used to complete the application for this M&RP. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

8. Records of monitoring information shall include the following:

   a. The date, exact place, and time of sampling or measurements,

   b. The individual(s) who performed the sampling or measurements,

   c. The date(s) analyses were performed,

   d. The individual(s) who performed the analyses,

   e. The analytical techniques or method used, and

   f. The results of such analyses.

9. All monitoring instruments and devices that are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.

10. The discharger shall report all instances of noncompliance not reported under Standard Provision E.5 of Order No. R9-2004-0015 at the time monitoring reports are submitted. The reports shall contain the information described in Provision E.5.

11. The monitoring reports shall be signed by an authorized person as required by Standard Provision E.21.

12. A grab sample is an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.

B. DISCHARGE MONITORING

1. The discharger is responsible for the monitoring and reporting of septic tank effluent[1] to the subsurface disposal leach field infiltration system in accordance with the following criteria:

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY[2]	REPORTING FREQUENCY[3]
Flowrate[4]	Gallons/Day	Measurement	Daily	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly	Quarterly
Nitrate (as NO_3)	mg/L	Grab	Quarterly	Quarterly
Nitrite (as NO_2)	mg/L	Grab	Quarterly	Quarterly
Kjeldahl Nitrogen (as N)	mg/L	Grab	Quarterly	Quarterly
Total Nitrogen (as N)	mg/L	Grab	Quarterly	Quarterly
Formaldehyde	mg/L	Grab	Quarterly[2]	Quarterly
Boron	mg/L	Grab	Quarterly[2]	Quarterly
Chloride	mg/L	Grab	Quarterly[2]	Quarterly
Sulfate	mg/L	Grab	Quarterly[2]	Quarterly
Manganese	mg/L	Grab	Quarterly[2]	Quarterly
Fluoride	mg/L	Grab	Quarterly[2]	Quarterly
MBAS	mg/L	Grab	Quarterly[2]	Quarterly
Iron	mg/L	Grab	Quarterly[2]	Quarterly
Total Suspended Solids	mg/L	Grab	Quarterly[2]	Quarterly
Biochemical Oxygen Demand (BOD_5 @ 20°C)	mg/L	Grab	Quarterly[2]	Quarterly

Notes: mg/L = milligrams per liter

1 Samples of the septic tank effluent shall be collected from the surge tank prior to discharge to the subsurface disposal leach field infiltration system.

2 The discharger shall increase the sampling frequency from quarterly to monthly, from semiannually to quarterly, and from annually to semiannually for any noted constituent that exceeds the limit specified by Performance Requirements of Order No. R9-2004-0015. The increased frequency of monitoring shall continue until the discharger achieves compliance with the limitations for three consecutive periods. After compliance is achieved, the discharger shall resume sampling at the specified frequency. Monthly is defined as a calendar month. Quarterly is defined as three consecutive calendar months beginning at the first of the year. Semiannually is defined as six consecutive calendar months beginning at the first of the year. Annual is defined as a calendar year.

3 Monitoring and reporting for the constituents listed above is to be done quarterly for the first 3 years after adoption of Order No. R9-2004-0015. After 3 years, if the discharger has demonstrated compliance with the Performance Requirements, monitoring and reporting frequency of the constituents shall be changed to semiannual.

4 Report both the average daily and total flowrate for the reporting period for the discharge of effluent from the septic tank(s) to the subsurface disposal leach field infiltration system.

2. Groundwater samples shall be collected from all monitoring wells.

3. The discharger is responsible for the monitoring and reporting of the groundwater from monitoring wells in accordance with the following criteria:

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY[1]	REPORTING FREQUENCY[2]
Total Dissolved Solids	mg/L	Grab	Quarterly	Quarterly
Nitrate (as NO_3)	mg/L	Grab	Quarterly	Quarterly
Nitrite (as NO_2)	mg/L	Grab	Quarterly	Quarterly
Kjeldahl Nitrogen (as N)	mg/L	Grab	Quarterly	Quarterly
Total Nitrogen (as N)	mg/L	Grab	Quarterly	Quarterly
Formaldehyde	mg/L	Grab	Quarterly[2]	Quarterly
Boron	mg/L	Grab	Quarterly[2]	Quarterly
Chloride	mg/L	Grab	Quarterly[2]	Quarterly
Sulfate	mg/L	Grab	Quarterly[2]	Quarterly
Manganese	mg/L	Grab	Quarterly[2]	Quarterly
Fluoride	mg/L	Grab	Quarterly[2]	Quarterly
MBAS	mg/L	Grab	Quarterly[2]	Quarterly
Iron	mg/L	Grab	Quarterly[2]	Quarterly
Biochemical Oxygen Demand (BOD_5 @ 20°C)	mg/L	Grab	Quarterly[2]	Quarterly

Notes: mg/L = milligrams per liter

1 The discharger shall increase the sampling frequency from quarterly to monthly, from semiannually to quarterly, and from annually to semiannually for any noted constituent that exceeds the limit specified by Performance Requirements of Order No. R9-2004-0015. The increased frequency of monitoring shall continue until the discharger achieves compliance with the limitations for three consecutive periods. After compliance is achieved, the discharger shall resume sampling at the specified frequency. Monthly is defined as a calendar month. Quarterly is defined as three consecutive calendar months

beginning at the first of the year. Semiannually is defined as six consecutive calendar months beginning at the first of the year. Annual is defined as a calendar year.

2 Monitoring and reporting for the constituents listed above is to be done quarterly for the first 3 years after adoption of Order No. R9-2004-0015. After 3 years, if the discharger has demonstrated compliance with the Performance Requirements, monitoring and reporting frequency of the constituents shall be changed to semiannual.

3. The discharger shall review the monitoring results for compliance with Order No. R9-2004-0015 and submit a statement of compliance as part of the Monitoring and Reporting Program No. R9-2004-0015. The statement of compliance shall identify and report all violations of Performance Requirements and Discharge Specifications of Order No. R9-2004-0015.

C. MAINTENANCE AND INSPECTION

1. The discharger shall monitor the septic tanks and report the results as described below:

PARAMETER	UNIT	TYPE OF MEASUREMENT	MINIMUM INSPECTION FREQUENCY	REPORTING FREQUENCY
Sludge depth and scum thickness in each compartment of each septic tank	Feet	Staff Gauge	Annually	Annually
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff Gauge	Annually	Annually
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually	Annually

2. Septic tanks shall be pumped when any one of the following conditions exist, or may occur before the next inspection:

   a. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment; or,

   b. The scum layer is within three inches of the outlet device; or,

   c. The sludge layer is within eight inches of the outlet device.

D. SEWAGE SOLIDS AND BIOSOLIDS

A record of the type, quantity, manner, and location of disposal of all solids removed in the course of sewage treatment shall be maintained by the discharger and be submitted to the Regional Board annually.

A biosolids certification, certifying that the disposal of biosolids complies with existing Federal and State laws and regulations, including permitting requirements and technical standards included in 40 CFR 503 shall be submitted annually.

E. MONITORING WELLS

The discharger shall submit an initial monitoring well plan to the Regional Board within 30 days of adoption of this Order. The initial monitoring well plan shall include, but not be limited to, the number, location, and depth of monitoring wells. Monitoring wells shall be installed to groundwater depth to provide groundwater flow direction and representative groundwater samples to verify compliance with the limitations specified in Section B, *Performance Requirements* and the Basin Plan groundwater quality objectives. The initial monitoring well plan shall contain at least 3 monitoring wells to determine flow direction and compliance: two wells down gradient of the subsurface disposal leach field infiltration system and one well up gradient to assess background concentration. The plan shall clearly identify which wells are proposed as compliance monitoring wells. These wells shall be located down gradient of the subsurface disposal leach field infiltration system(s). The monitoring well plan is subject to approval by the Regional Board.

Once flow direction is determined the discharger shall submit a supplemental monitoring well plan to the Regional Board, indicating the placement and number of additional compliance monitoring well(s) and “trigger” monitoring well(s). At least one trigger monitoring well will be required. Trigger monitoring wells will be located up gradient of the compliance monitoring wells and used to determine the effectiveness of the subsurface disposal leach field infiltration system(s) and the need for system modifications or additional wastewater treatment. The supplemental monitoring well plan is subject to approval by the Regional Board.

Monitoring wells and trigger wells shall be sampled for the same constituents and at the same frequencies listed above in Section B.3, *Discharge Monitoring*.

F. REPORT SCHEDULE

Monitoring reports shall be submitted to the Executive Officer in accordance with the following schedule:

Reporting Frequency	Report Period	Report Due
Quarterly	January - March	May 1st
	April - June	August 1st,
	July - September	November 1st
	October - December	February 1st
Semiannually	January – June	August 1st
	July – December	February 1st
Annually	January-December	February 1st

Monitoring reports shall be submitted to:

ATTN: POTW Compliance Unit
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123

Ordered by: _____TENTATIVE_____
JOHN H. ROBERTUS
Executive Officer

Date: